

Work Order ID 164690

Thursday, July 27, 2017 3:57:41 PM

164690

Page 1

Item ID: K10003

Accept

N900040100

Setup Start

NS1

Revision ID:

Stop

NS2

Item Name: Saddle

Start Date: 8/3/2017

Start Qty: 2.00

2

Cust Item ID:

Required Date: 9/1/2017

Req'd Qty: 2.00

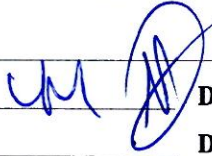
2

Customer:

Reference:

Approvals:

Process Plan:



Date: 17/2/28

Tooling:

Date:

Run Start

NR1

QC:

Date:

SPC (Y/N):

Date:

Stop

NR2Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

Draw Nbr

Revision Nbr

IIN634,635

H

SEP 01 2017

DAS

6

9-89

100

Document Control

0.00

100

DC

Memo

Doc.Control -USB or Paperwork

Create White labels only per PPP K10003

2 DAS
28
9-89

SEP 18 2017

110

Pick Kit

0.00

110

Packaging

Memo

0.00

Packaging

2

DAS
6
9-89DAS
27
9-89

SEP 18 2017

120

QC4- 100% Inspect kits for completeness

0.00

120

QC

Memo

0.06

Quality Control

2 DAS
28
9-89

SEP 18 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval	
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐				
		OTHER : ☐							

Thursday, July 27, 2017 3:57:41 PM

Page 2

SEP 19 2017

DAS
21
9-89

SEP 19 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
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Misidentified ☐	Past Due ☐																																																																

Picklist Print

Thursday, July 27, 2017 3:57:40 PM

Page 1

Work Order ID: 164690

164690

Parent Item: K10003

K10003

Parent Item Name: Saddle

Start Date: 8/3/2017

Required Date: 9/1/2017

Start Qty: 2.00

Required Qty: 2.00

Comments: IPP : I 03.01.16 Reformat: Incorporated D205-641-011 KJ/RF
 IPP : J 06-07-25 As per DSI 9344 JLM
 IPP : K 06.11.17 Per K10003 Rev C KJ
 IPP : L 07.01.12 Document Record for copying bluefile rmv KJ
 IPP Rev:M 08-08-12 now @ chg 006 (DSI 9418) DD verified by:
 IPP N 09.01.27 DSI 9418 rev B EC verified by: DD IPP Rev:O
 11.03.11 per dsi9536 DD verf:EC IPP REV:P 12.01.23 AS
 PER ECN11-684 VERF:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
AN4-51A		Purchased	No			110	Each	130.0000	8	16			

AN4-51A

Bolt

DAS
28
9-89

Location	Loc Qty	Loc Code
FG	5	
122993	5	
over003	50	
m137951	50	
ST340	75	
m137480	75	

DAS
6
9-89

SEP 1 8 2017

DAS
27
9-89

AN4-6A

Purchased

No

110

Each

1,083.000

16

32

AN4-6A

BOLT

DAS
28
9-89

Location	Loc Qty	Loc Code
over003	1000	
M137951	500	
M138045	500	
ST345	83	
M137464	83	

DAS
6
9-89

SEP 1 8 2017

DAS
27
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
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Misidentified ☐	Past Due ☐																																																																

Picklist Print

Thursday, July 27, 2017 3:57:40 PM

Page 2

Work Order ID: 164690

164690

Parent Item: K10003

K10003

Parent Item Name: Saddle

Start Date: 8/3/2017

Required Date: 9/1/2017

Start Qty: 2.00

Required Qty: 2.00

AN4C46A

Purchased

No

110

Each

440.0000

4

8

AN4C46A

Bolt

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK007

230

m138009

230

FG

8

123642

2

m132169

6

OVER002

100

m137316

100

ST341

102

m137316

102

DAS
6
9-89

SIP 1.0

DAS
27
9-89

AN6-12A

Purchased

No

110

Each

154.0000

8

16

AN6-12A

Bolt

DAS
28
9-89

Location

Loc Qty

Loc Code

over005

100

M138040

100

ST335

54

M137333

54

DAS
6
9-89

SEP 1-8 2017

DAS
27
9-89

Thursday, July 27, 2017 3:57:40 PM

Shop Packet Print

Page 2

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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								Completed By	
								Lead hand / Supervisor Approval Verification	
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Root Cause		FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐				
OTHER : ☐									

Picklist Print

Thursday, July 27, 2017 3:57:40 PM

Page 3

Work Order ID: 164690

164690

Parent Item: K10003

K10003

Parent Item Name: Saddle

Start Date: 8/3/2017

Required Date: 9/1/2017

Start Qty: 2.00

Required Qty: 2.00

D2570

Manufactured No

110

Each

332.0000

24

48

D2570

Bushing

**

DAS 27 9-89
SEP 18 2017

DAS 28 9-89

Location

Loc Qty

Loc Code

FG
88781
FP001
147395
150641
155735
ST008
159964
161302
163355

12
12
59
16
13
30
261
61
100
100

164398

D2571

Manufactured No

110

Each

17.0000

1

2

D2571

Saddle, Fwd, Out

**

DAS 27 9-89
SEP 18 2017
DAS 6 9-89

DAS 28 9-89

Location

Loc Qty

Loc Code

ST397
158815
159500
99202

17
12
4
1

2

D2572

Manufactured No

110

Each

15.0000

1

2

D2572

Saddle, Fwd, In

**

DAS 27 9-89
SEP 18 2017
DAS 6 9-89

DAS 28 9-89

Location

Loc Qty

Loc Code

ST397
156278
158742
98622

15
2
12
1

2

Thursday, July 27, 2017 3:57:40 PM

Shop Packet Print

Page 3

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
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Picklist Print

Thursday, July 27, 2017 3:57:40 PM

Page 4

Work Order ID: 164690

164690

Parent Item: K10003

K10003

Parent Item Name: Saddle

Start Date: 8/3/2017

Required Date: 9/1/2017

Start Qty: 2.00

Required Qty: 2.00

D2573

Manufactured No

110

Each

19.0000

1

2

D2573

Saddle, Aft, Out

SEP 18 2017

DAS
6
9-89

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST398

19

158816

12

159559

6

99396

1

2

D2574

Manufactured No

110

Each

13.0000

1

2

D2574

Saddle, Aft, In

SEP 18 2017

DAS
6
9-89

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST398

13

158743

12

98612

1

2

D2747

Manufactured No

110

Each

122.0000

4

8

D2747

Set Screw

DAS
6
9-89

SEP 18 2017

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST010

122

157262

68

164408

50

86827

4

8

D2876

Manufactured No

110

Each

45.0000

2

4

D2876

Saddle Spacer

SEP 18 2017

DAS
6
9-89

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST013

45

156220

11

159960

32

88282

2

4

Thursday, July 27, 2017 3:57:41 PM

Shop Packet Print

Page 4

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Page 5

Work Order ID: 164690

164690

Parent Item: K10003

K10003

Parent Item Name: Saddle

Start Date: 8/3/2017

Required Date: 9/1/2017

Start Qty: 2.00

Required Qty: 2.00

D2877

Manufactured No

110

Each

50.0000

2

4

D2877

Saddle Spacer

**

DAS

6

9-89

DAS

27

9-89

SEP 1 8 2017

DAS
28
9-89

Location

Loc Qty

Loc Code

ST013

50

156280

6

161769

30

163850

12

86890

2

D3405-041

Manufactured No

110

Each

23.0000

1

2

D3405-041

Ground Handling Lug

**

DAS
6
9-89

DAS

27

9-89

SEP 1 8 2017

DAS
28
9-89

Location

Loc Qty

Loc Code

st529

17

159878

12

161724

5

ST532A

6

163819

6

D3405-043

Manufactured No

110

Each

22.0000

1

2

D3405-043

Ground Handling Lug

**

DAS
6
9-89

DAS

27

9-89

SEP 1 8 2017

DAS
28
9-89

Location

Loc Qty

Loc Code

st529

18

159877

12

161723

6

ST532A

4

163818

4

Thursday, July 27, 2017 3:57:41 PM

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Page 5

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Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐								
Misidentified ☐	Past Due ☐	OTHER : _____							

Picklist Print

Thursday, July 27, 2017 3:57:41 PM

Page 6

Work Order ID: 164690

164690

Parent Item: K10003

K10003

Parent Item Name: Saddle

Start Date: 8/3/2017

Required Date: 9/1/2017

Start Qty: 2.00

Required Qty: 2.00

D3407-041

Manufactured No

110

Each

20.0000

1

2

D3407-041

Tow Ring

**

DAS
6
9-89

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

st530

20

159443

5

161679

8

162967

6

78878

1

165868

SEP 1 8 2017

D3417-5

Manufactured No

110

Each

49.0000

2

4

D3417-5

Washer

**

DAS
6
9-89

SEP 1 8 2017

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST034

49

158791

49

D3456-1

Manufactured No

110

Each

93.0000

1

2

D3456-1

Washer

**

DAS
6
9-89

SEP 1 8 2017

DAS
27
9-89

Location

Loc Qty

Loc Code

FG

5

25701

5

ST036

88

159500

14

162291

74

DAS
28
9-89

2

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step # : _____		QTY Effective : _____			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
				Completed By					
				Lead hand / Supervisor Approval Verification					
				QC / QA Coordinator Approval					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		OTHER : ☐							

Picklist Print

Thursday, July 27, 2017 3:57:41 PM

Page 7

Work Order ID: 164690

164690

Parent Item: K10003

K10003

Parent Item Name: Saddle

Start Date: 8/3/2017

Required Date: 9/1/2017

Start Qty: 2.00

Required Qty: 2.00

D3533-1

Manufactured No

110 Each 79.0000 2 4

D3533-1

Set Screw

DAS
28
9-89

Location

Loc Qty

Loc Code

ST038

79

156724

27

~~163999~~

50

87348

2

DAS
6
9-89

SEP 1 8 2017

DAS
27
9-89

MS21042L4

Purchased No

110 Each 2,388.000 24 48

MS21042L4

Nut

DAS
28
9-89

Location

Loc Qty

Loc Code

FP001

10

m133363

10

GA

11

m135058

11

OVER007

1000

m138084

1000

ST303

1367

m137680

367

m137988

1000

DAS
6
9-89

SEP 1 8 2017

DAS
27
9-89

138326

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																											
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval																																																							
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval																																																							
Root Cause		FAULT CATEGORY																																																													
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER :	
Misidentified ☐	Past Due ☐																																																														

Picklist Print

Thursday, July 27, 2017 3:57:41 PM

Page 8

Work Order ID: 164690

164690

Parent Item: K10003

K10003

Parent Item Name: Saddle

Start Date: 8/3/2017

Required Date: 9/1/2017

Start Qty: 2.00

Required Qty: 2.00

MS21043-4

Purchased

No

110

Each

597.0000

5

10

MS21043-4

Nut

DAS

DAS

6

27

SEP 18 2017

9-89

9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

FG

40

104603

40

GA

99

m132803

5

m137371

94

ST302

458

m137361

5

m137371

153

m137886

300

10

NAS1149D0463J

Purchased

No

110

Each

3,730.000

32

64

NAS1149D0463.I

Washer

DAS

SEP 18 2017

6

9-89

58-6

27

DAS

DAS
28
9-89

Location

Loc Qty

Loc Code

GA

558

M135056

40

M137699

518

ST260a

2600

M137988

600

M138084

2000

ST263

572

M137699

572

138230

Thursday, July 27, 2017 3:57:41 PM

Shop Packet Print

Page 8

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval	
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐				
		OTHER : ☐							

Picklist Print

Page 9

Thursday, July 27, 2017 3:57:41 PM

Work Order ID: 164690

164690

Parent Item: K10003

K10003

Parent Item Name: Saddle

Start Date: 8/3/2017

Required Date: 9/1/2017

Start Qty: 2.00

Required Qty: 2.00

NAS1149D0663J

Purchased

No

110

Each

982.0000

8

16

NAS1149D0663.I

Washer

**

SEP 18 2017

DAS

6

SEP 18 2017

DAS

27

9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST260a

500

M138040

500

ST263

482

M137361

482

to

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval																																																									
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval																																																									
Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER :			
Misidentified ☐	Past Due ☐																																																																

5.0 PARTS LIST

5.1 Skidtube Installations with Standard Wearshoes

Item	634 -011	634 -015	634 -041	634 -045	634 -047	641 -011	Part Number	Description
	X						D205-634-011	SKIDTUBE INSTALLATION (STANDARD)
		X					D205-634-015	SKIDTUBE INSTALLATION (MODIFIED)
1			X				D205-634-041	SKIDTUBE
		1		X			D205-634-045	SKIDTUBE
					X		D205-634-047	WEARSHOE KIT
1	1	1				X	D205-641-011	GROUND HANDLING KIT
1			1				D2580-041	205 SKIDTUBE ASSEMBLY (STANDARD)
1				1			D2580-045	205 SKIDTUBE ASSEMBLY (MODIFIED)
2A			16	16			D2594-1	* PLUG
2B			16	16			D2594-3	* O-RING
3			1	1			D2855	* AFT CAP
4			2	2			AN3-5A	* BOLT
5			2	2			NAS1149D0332J	* WASHER (AN960JD10L)
6A			1	1	1		D3564-9	* WEARSHOE (REPLACES D2577-1)
7A			1	1	1		D3564-11	* WEARSHOE (REPLACES D2577-3)
8A			1	1	1		D3564-5	* WEARSHOE (REPLACES D2577-5)
9A			1	1	1		D3564-13	* WEARSHOE
10			50	50	50		AN3C4A	* BOLT (REPLACES AN3-4A)
11			50	50	50		NAS1149C0332R	* WASHER (AN960C10L)
12			50	50			ALS4-1032-130	* INSERT
13			2	2			ALS4-1032-225	* INSERT
20	1	1					D2571	SADDLE, FWD OUTSIDE
21	1	1					D2572	SADDLE, FWD INSIDE
22	1	1					D2573	SADDLE, AFT OUTSIDE
23	1	1					D2574	SADDLE, AFT INSIDE
24	8	8					AN4-51A	BOLT
25	16	16					D2570	BUSHINGS
26	8	8					MS21042L4	NUT (OR MS21042-4)
27	8	8					AN6-12A	BOLT
28	8	8					NAS1149D0668J	WASHER (AN960JD616)
29	16	16					AN4-6A	BOLT
30	32	32					NAS1149D0463J	WASHER (AN960JD416)
31	16	16					MS21042L4	NUT (OR MS21042-4)
32	4	4					D2747	SET SCREW
33	2	2					D3533-1	SET SCREW
40	1	1					D3407-041	TOW RING (REPLACES D2968-041)
41	1	1					D3456-1	WASHER
43	1	1					MS21043-4	NUT
44	2	2					D3417-5	WASHER
50						1	D3405-041	LUG ASSEMBLY (REPLACES D2736-1)
51						1	D3405-043	LUG ASSEMBLY (REPLACES D2736-3)
52						4	AN4C46A	BOLT
53						8	D2570	BUSHING
54						4	MS21043-4	NUT (OR MS21042-4)
60	2	2					D2876	SADDLE SPACER
61	2	2					D2877	SADDLE SPACER

*DENOTES THAT PART IS INCLUDED WITH D2580-041/-045 ASSEMBLY ABOVE